Shafthole experiments – punched series: samples 7-17

Sample 7 unetched: punched and water quenched

Micrograph 40: Sample 7, photo taken on edge of shaft-hole

Micrograph 41: Sample 7, photo taken near bottom surface of sample
Micrograph 42: Sample 7, photo taken in the interior of the sample

Micrograph 43: Sample 7, photo taken near top surface of sample
Sample 7 etched: punched and water quenched

Micrograph 44: Sample 7, photo taken near top surface of sample

Micrograph 45: Sample 7, photo taken near side surface of sample
Micrograph 46: Sample 7, photo taken in interior of sample

Micrograph 47: Sample 7, photo taken near shaft-hole surface of sample
Micrograph 48: Sample 7, photo taken near shaft-hole surface of sample

Micrograph 49: Sample 7, photo taken near shaft-hole surface of sample
Micrograph 50: Sample 7, photo taken near top surface of sample

Sample 8 unetched: punched and water quenched (lower part of section)

Micrograph 51: Sample 8, photo taken near bottom surface of sample
Micrograph 52: Sample 8, photo taken in interior of sample

Sample 8 etched: punched and water quenched (lower part of sample 9)

Micrograph 53: Sample 8, photo taken in interior of sample
Micrograph 54: Sample 8, photo taken near side surface of sample

Micrograph 55: Sample 8, photo taken near shaft-hole surface of sample
Micrograph 56: Sample 8, photo taken near shaft-hole surface of sample

Sample 9 unetched: punched and water quenched (upper part of sample 8)

Micrograph 57: Sample 9, photo taken near shaft-hole surface of sample
Micrograph 58: Sample 9, photo taken near top surface of sample

Sample 9 etched: punched and water quenched (upper part of sample 8)

Micrograph 59: Sample 9, photo taken near top surface of sample
Micrograph 60: Sample 9, photo taken in interior of sample

Micrograph 61: Sample 9, photo taken near shaft-hole surface of sample
Micrograph 62: Sample 9, photo taken near shaft-hole surface of sample

Sample 10 unetched: punched and water quenched (upper part of sample 11)

Micrograph 63: Sample 10, photo taken near top surface of sample
Micrograph 64: Sample 10, photo taken near side surface of sample

Sample 10 etched: punched and water quenched (upper part of sample 11)

Micrograph 65: Sample 10, photo taken near top surface of sample
Micrograph 66: Sample 10, photo taken near side surface of sample

Micrograph 67: Sample 10, photo taken near shaft-hole surface of sample
Micrograph 68: Sample 10, photo taken near shaft-hole surface of sample

Sample 11 unetched: punched and water quenched (lower part of sample 10)

Micrograph 69: Sample 11, photo taken near bottom surface of sample
Micrograph 70: Sample 11, photo taken near shaft-hole surface of sample

Micrograph 71: Sample 11, photo taken in interior of sample
Sample 11 etched: punched and water quenched (lower part of sample 10)

Micrograph 72: Sample 11, photo taken near shaft-hole surface of sample

Micrograph 73: Sample 11, photo taken near shaft-hole surface of sample
Micrograph 74: Sample 11, photo taken near shaft-hole surface of sample

Micrograph 75: Sample 11, photo taken near bottom surface of sample
Micrograph 76: Sample 11, photo taken in interior of sample

Sample 12 unetched: punched and air cooled (upper part of sample 13)

Micrograph 77: Sample 12, photo taken near top surface of sample
Micrograph 78: Sample 12, photo taken near shaft-hole surface of sample

Micrograph 79: Sample 12, photo taken in interior of sample
Sample 12 etched: punched and air cooled (upper part of sample 13)

Micrograph 80: Sample 12, photo taken near top surface of sample

Micrograph 81: Sample 12, photo taken near shaft-hole surface of sample
Micrograph 82: Sample 12, photo taken near shaft-hole surface of sample

Micrograph 83: Sample 12, photo taken in interior of sample
Sample 13 unetched: punched and air cooled (lower part of sample 12)

Micrograph 84: Sample 13, photo taken near side surface of sample

Micrograph 85: Sample 13, photo taken near bottom surface of sample
Micrograph 86: Sample 13, photo taken near shaft-hole surface of sample

Sample 13 etched: punched and air cooled (lower part of sample 12)

Micrograph 87: Sample 13, photo taken near shaft-hole surface of sample
Micrograph 88: Sample 13, photo taken near shaft-hole surface of sample

Micrograph 89: Sample 13, photo taken near bottom surface of sample
Micrograph 90: Sample 13, photo taken near bottom surface of sample

Sample 14 unetched: punched and air cooled (lower part of sample 15)

Micrograph 91: Sample 14, photo taken near shaft-hole surface of sample
Micrograph 92: Sample 14, photo taken near bottom surface of sample

Micrograph 93: Sample 14, photo taken in interior of sample
Sample 14 etched: punched and air cooled (lower part of sample 15)

Micrograph 94: Sample 14, photo taken near shaft-hole surface of sample

Micrograph 95: Sample 14, photo taken near shaft-hole surface of sample
Micrograph 96: Sample 14, photo taken near shaft-hole surface of sample

Micrograph 97: Sample 14, photo taken near shaft-hole surface of sample
Micrograph 98: Sample 14, photo taken near bottom surface of sample

Micrograph 99: Sample 14, photo taken near side surface of sample
Sample 15 unetched: punched and air cooled (upper part of sample 14)

Micrograph 100: Sample 15, photo taken near top surface of sample

Micrograph 101: Sample 15, photo taken near shaft-hole surface of sample
Sample 15 etched: punched and air cooled (upper part of sample 14)

Micrograph 102: Sample 15, photo taken near shaft-hole surface of sample

Micrograph 103: Sample 15, photo taken near shaft-hole surface of sample
Micrograph 104: Sample 15, photo taken near shaft-hole surface of sample

Micrograph 105: Sample 15, photo taken near top surface of sample
Micrograph 106: Sample 15, photo taken near top surface of sample

Sample 16 unetched: punched and air cooled (upper part of sample 17)

Micrograph 107: Sample 16, photo taken near top surface of sample
Micrograph 108: Sample 16, photo taken in interior of sample

Micrograph 109: Sample 16, photo taken near shaft-hole surface of sample
Sample 16 etched: punched and air cooled (upper part of sample 17)

Micrograph 110: Sample 16, photo taken near shaft-hole surface of sample

Micrograph 111: Sample 16, photo taken near shaft-hole surface of sample
Micrograph 112: Sample 16, photo taken near shaft-hole surface of sample

Micrograph 113: Sample 16, photo taken near top surface of sample
Micrograph 114: Sample 16, photo taken near side surface of sample

Micrograph 115: Sample 16, photo taken in interior of sample
Sample 17 unetched: punched and air cooled (lower part of sample 16)

Micrograph 116: Sample 17, photo taken near shaft-hole surface of sample

Micrograph 117: Sample 17, photo taken near bottom surface of sample
Sample 17 etched: punched and air cooled (lower part of sample 16)

Micrograph 118: Sample 17, photo taken near shaft-hole surface of sample

Micrograph 119: Sample 17, photo taken near shaft-hole surface of sample
Micrograph 120: Sample 17, photo taken near bottom surface of sample

Micrograph 121: Sample 17, photo taken near side surface of sample